

REMARKS

The Title has been changes as suggested by the Examiner such that it is now more descriptive of the claimed invention.

The specification has been amended on page 1 to correct the patent number of the cited U.S. patent. Enclosed herewith is a copy of U.S. Patent 5,394,029.

The claims have been amended to more clearly define the invention as disclosed in the written description. In particular, claims 2 and 7 have been cancelled, while claims 1 and 6 have been amended to include the limitations of cancelled claims 2 and 7. In addition, new claims 11-15 have been added to claim the formulas for calculating the translation signals.

The Examiner has rejected claims 1-10 under 35 U.S.C. 102(a) as being anticipated by U.S. Patent 5,991,085 to Rallison et al.

The Rallison et al. patent discloses a head-mounted personal visual display apparatus with image generator and holder, in which magneto-resistive sensors (542a, 542b, 542c) are used to sense a magnetic field and to determine one movement, for example, yaw, of the apparatus, i.e., rotation about the spinal axis of a person wearing the apparatus, while gravimetric sensors (tilt sensor array 620) measure pitch (nodding motion) and roll (tilting of head to shoulder) (col. 5, lines 13-16, col. 22, lines 32-46). To this end, the magneto-resistive sensors are only used to detect

one direction and/or angle. This information about yaw is then combined with the pitch and roll information and subjected to some unknown calculation to define movement of the head.


The subject invention, on the other hand, merely senses the magnitude of a plurality of components of a magnetic field, these components not be dependent to each other. Then, these sensed components are subjected to specific calculations for forming translation signals for a graphical element on a display, in which at least two of the sensed components are used to form a first of the translation signals, and at least two of the sensed components are used to form a second of the translation signals, wherein at least one of these at least two sensed components is different from the components used to form the first translation signal.

Applicant submits that the subject invention only uses the measured components of the magnetic field to determine the translation signals, as opposed to the Rallison et al. patent, which finds it necessary to combine magnetic field detection with gravimetric or inertial sensing in some unknown calculation to determine the position of the apparatus.

In view of the above, Applicant believes that the subject invention, as claimed, is neither anticipated nor rendered obvious by the prior art, and as such, is patentable thereover.

Applicant believes that this application, containing claims 1, 3-6 and 8-10, is now in condition for allowance and such action is respectfully requested.

Respectfully submitted,

by 
Edward W. Goodman, Reg. 28,613
Attorney
Tel.: 914-333-9611

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